AFICAMTEN AND MAVACAMTEN: WHEN SIDE EFFECTS AFFECT EFFICACY

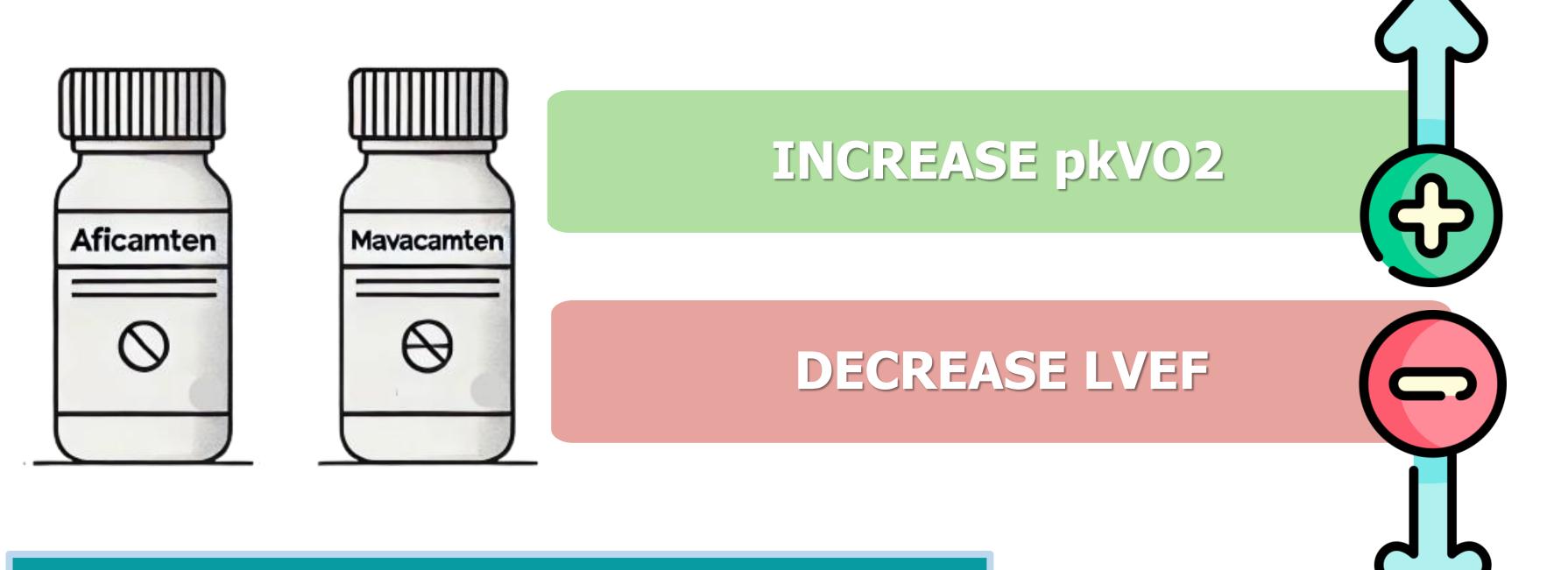
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BACKGROUND

Adjusted Hazard Ratios for Peak VO2 and Ejection Fraction (LVEF) in **Coats' Regression** for Death and Transplant

Exercise Variables	Death or Transplant (n=178)	Death (n=156)	Transplant (n=22)
	HR (95% CI)	HR (95% CI)	HR (95% CI)
Peak VO ₂	0.82 (0.77,	0.82(0.77,0.	0.87 (0.79,
	0.88)	88)	0.96)
Ejection Fraction	0.00003	0.005	7.59e ⁻¹¹
	(1.67e ⁻⁸ ,	(3.46e ⁻⁷ ,	(1.33e ⁻¹⁷ ,
	0.081)	62.06)	0.0004)



AIM AND OBJECTIVES

To evaluate, using the centered prognostic index (CPI) from Coats et al.'s equation, the impact of pkVO2 increase from mavacamten and aficamten, first without considering the variation in LVEF, and then taking this variation into account.

(*Coats et al., 2015*)

MATERIALS AND METHODS

Clinical Trial > N Engl J Med. 2024 May 30;390(20):1849-1861. doi: 10.1056/NEJMoa2401424. Epub 2024 May 13.

Aficamten for Symptomatic Obstructive Hypertrophic Cardiomyopathy

Clinical Trial > Lancet. 2020 Sep 12;396(10253):759-769. doi: 10.1016/S0140-6736(2 Epub 2020 Aug 29.

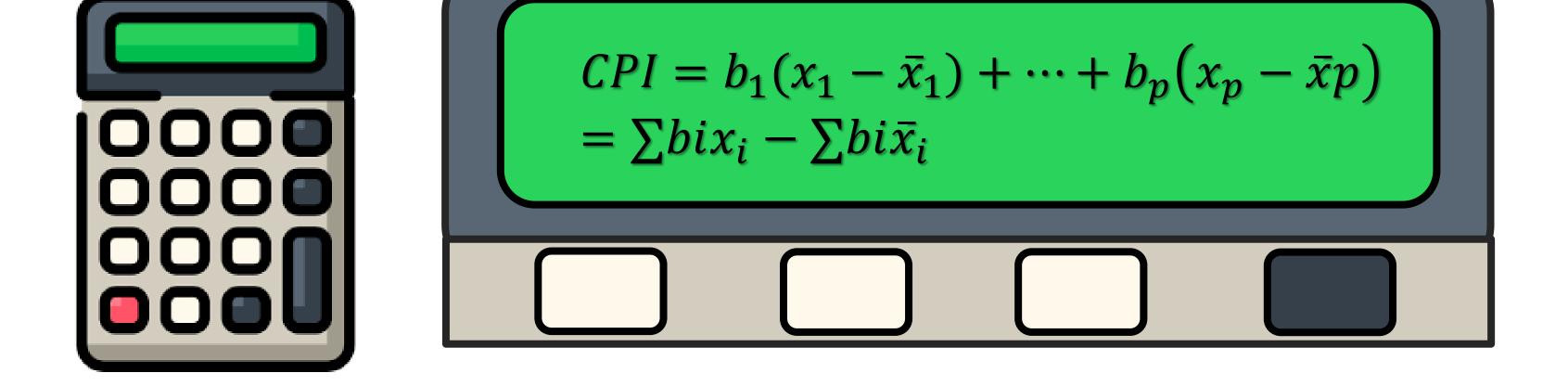
Mavacamten for treatment of symptomatic

Increase in PkVO2

- Mean change in LVEF
- Hazard Ratios from Coats et al.'s equation \rightarrow Coefficients

CPI was first calculated based on the pkVO2 and then incorporating LVEF

obstructive hypertrophic cardiomyopathy (EXPLORER-HCM): a randomised, double-blind, placebo-controlled, phase 3 trial

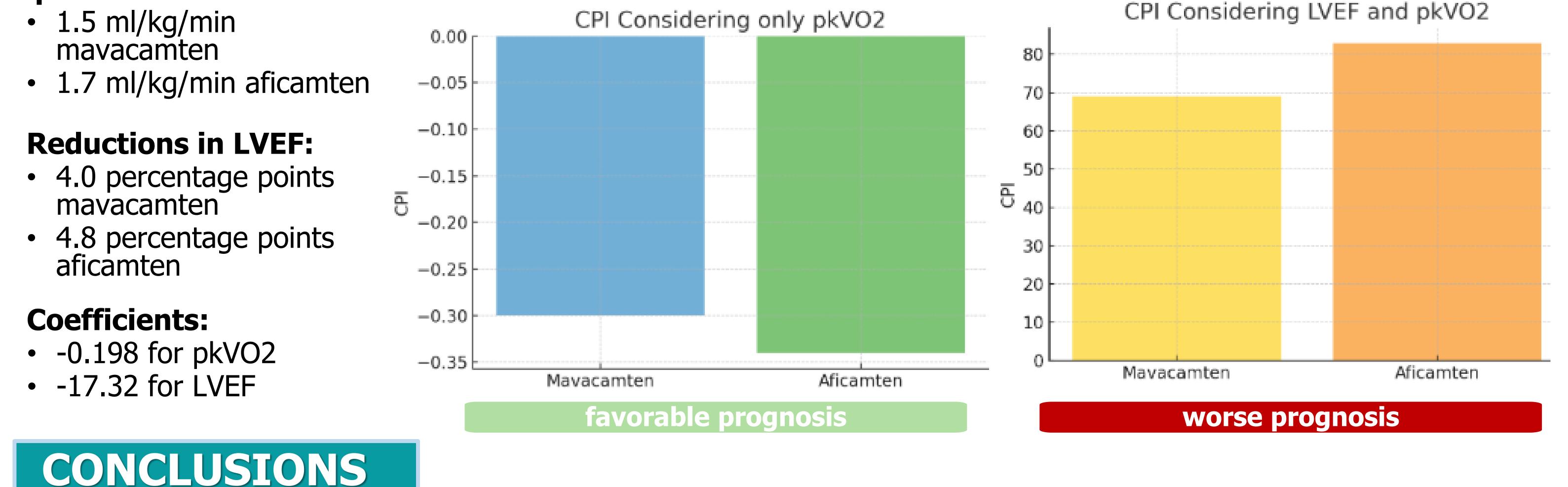


RESULTS

pkVO2 increase:

- mavacamten

- mavacamten
- aficamten



According to Coats et al.'s equation, the pkVO2 increase is initially associated with a better prognosis when other variables are held constant. However, when the reduction in LVEF is also taken into account, the prognosis worsens. It cannot be concluded from this data that the use of these drugs reduces death or transplantation risk.







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